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101 A retargetable microcode generation system for a high-level microprogra

Peter Marwedel

December 1981

Proceedings of the 14th annual workshop on Microprogram

Full text available: pdf(744.53 KB)

Additional Information: full citation, abstract, reference

A system for the generation of microcode from a high-level microprogrammir independent of the target machine because it is table-driven by a separate h horizontally microprogrammed machines.

102 Expansion-passing style: beyond conventional macros

R. Kent Dybvig, Daniel P. Friedman, Christopher T. Haynes

August 1986 Proceedings of the 1986 ACM conference on LISP and functional pro

Full text available: pdf(566.53 KB)

Additional Information: full citation, references, citings

103 PSAIL: A portable SAIL to C compiler—description and tutorial

P. F. Lemkin

October 1988

ACM SIGPLAN Notices, Volume 23 Issue 10

Full text available: pdf(1.32 MB)

Additional Information: full citation, index terms

104 Contributions: Roster of graphic languages and general subroutine pack

Toby Berk, Arie Kaufman

February 1980

ACM SIGGRAPH Computer Graphics, Volume 13 Issue 4

Full text available: pdf(724.26 KB)


Additional Information: full citation

106 Towards a computational formalization of natural language semantics

Robert M. Schwarcz

September 1969

Proceedings of the 1969 conference on Computational linguistics

Full text available:  pdf(1.45 MB)

Additional Information: full citation, abstract

The formalization of natural language semantics is a problem central to a number of concerns. A semantic theory requires a formalized representation of message and the processes of encoding and decoding that relate them. Formal logic has been based on the notions of model, extension, and intention; with certain changes and additions needed for a theory of natural language ...

106 Programming Languages: GPL, a truly general purpose language

Jan V. Garwick

September 1968

Communications of the ACM, Volume 11 Issue 9

Full text available:  pdf(695.05 KB)

Additional Information: full citation, abstract, references

A truly general purpose programming language, GPL, is described which contains (in addition to the language) new data types as well as facilities for operations performed upon them. It is sense that no basic element can be derived from the others with high efficiency. The ALGOL 60 for-statements, and if-statements are not basic; they are specified in terms of "symbols" (underlined ...

Keywords: ALGOL, general purpose, macro, programming language, self-extension

107 SLX: pyramid power

James O. Henriksen

December 1999

Proceedings of the 31st conference on Winter simulation: Simulation

Full text available:  pdf(116.24 KB)

Additional Information: full citation, references, citation

108 A programmer controlled approach to data and control abstraction

Juha Heinänen

June 1983

Proceedings of the 1983 ACM SIGPLAN symposium on Programming Languages

Full text available:  pdf(1.02 MB)

Additional Information: full citation, abstract, references

Traditionally, data abstraction languages have only provided a means to extend a base language to include new procedures and data types not present in the base language. This paper describes an approach, which also allows programmers to extend the language "on the fly" of the previously preempted decisions concerning the nature and implementation of the language. In order to illustrate the approach, several examples are given ...

109 Toward a formal theory of extensible software

Shriram Krishnamurthi, Matthias Felleisen

November 1998 ACM SIGSOFT Software Engineering Notes , Proceedings of the 61
on Foundations of software engineering, Volume 23 Issue 6

Full text available:  pdf(862.50 KB)


Additional Information: full citation, abstract, reference

As software projects continue to grow in scale and scope, it becomes important to reuse is *extensibility*, i.e., the extension of software without accessing existing code. We propose a rigorous, semantics-based definition of software extensibility. Then we apply them to several programs. The examination shows how programming languages can be designed to support the ...

110 Type-safe linking and modular assembly language

Neal Glew, Greg Morrisett

January 1999 Proceedings of the 26th ACM SIGPLAN-SIGACT symposium on Principles of Programming Languages



Full text available:  pdf(1.36 MB)

Additional Information: full citation, references, citations, abstract

111 DATR: a language for lexical knowledge representation

Roger Evans, Gerald Gazdar

June 1996 Computational Linguistics, Volume 22 Issue 2

Full text available:  pdf(3.14 MB)  Publisher Site

Additional Information: full citation, abstract, reference

Much recent research on the design of natural language lexicons has made use of a language originally developed for general knowledge representation purposes in Artificial Intelligence. This language for defining nonmonotonic inheritance networks with path/value equations is specifically for lexical knowledge representation. In keeping with its intended purpose, it constructs embodied ...

112 A compiler language for data structures

Neal Laurance

January 1968 Proceedings of the 1968 23rd ACM national conference

Full text available:  pdf(727.45 KB)

Additional Information: full citation, abstract, reference

The subject of data structures has received a great deal of attention in the past few years. Computer-aided design. Programming systems used for creating data structures (e.g., graphical languages) vary greatly in the rigidity of their representation to the programmer. As an example of a high-level system, we can mention the ...

110 Template meta-programming for Haskell

Tim Sheard, Simon Peyton Jones

October 2002

Proceedings of the ACM SIGPLAN workshop on Haskell

Full text available:  pdf(169.20 KB)

Additional Information: full citation, abstract, referenc

We propose a new extension to the purely functional programming language *meta-programming*. The purpose of the system is to support the *algorithmic* compile-time. The ability to generate code at compile time allows the program polytypic programs, macro-like expansion, user directed optimization (such a data structures and functions from existing ...

Keywords: meta programming, templates

114 PLI workshops: Template meta-programming for Haskell

Tim Sheard, Simon Peyton Jones

December 2002

ACM SIGPLAN Notices, Volume 37 Issue 12

Full text available:  pdf(244.61 KB)

Additional Information: full citation, abstract, refe

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115 FORTRAN IV as a syntax language

B. M. Leavenworth

February 1964

Communications of the ACM, Volume 7 Issue 2

Full text available:  pdf(921.80 KB) Additional Information: full citation, references, citings, index terms

116 Revised report on the algorithmic language scheme

J Rees, W Clinger

December 1986

ACM SIGPLAN Notices, Volume 21 Issue 12

Full text available:  pdf(4.06 MB) Additional Information: full citation, citings, index terms

117 An extensible interpreter

Stephen A. Schuman

September 1971 ACM SIGPLAN Notices , Proceedings of the international symposium
Issue 12Full text available:  pdf(595.31 KB)


Additional Information: full citation, abstract, c

The purpose of this brief paper is to propose an alternative approach for the
The idea outlined here will be referred to as an extensible interpreter. In this
an exceptionally concise description of the basic concept, even though there
the same notion, namely as a strategy for integrating an optimizing compiler

118 Josh: an open AspectJ-like language

Shigeru Chiba, Kiyoshi Nakagawa

March 2004 Proceedings of the 3rd international conference on Aspect-oriented

Full text available:  pdf(1.09 MB)

Additional Information: full citation, abstract, c


Although aspect-oriented programming (AOP) is becoming widely used, the c
generic and reusable description of advice are still research topics. To addres
which is our new AspectJ-like language with an extensible pointcut language
description. The extensible pointcut language is based on the idea of open co
pointcut designator in Java, the ...

Keywords: extensibility, generic description, pointcut

119 M-LISP: a representation-independent dialect of LISP with reduction sen

Robert Muller

October 1992 ACM Transactions on Programming Languages and Systems (TOPLAS)

Full text available:  pdf(1.67 MB)

Additional Information: full citation, abstract, references, c

In this paper we introduce M-LISP, a dialect of LISP designed with an eye to
with the structural style of operational semantics advocated by Plotkin [28].
of LISP [20] in an attempt to clarify the source of its metalinguistic power. W
clause in this definition. We then define the abstract syntax and operational s

Keywords: fexprs, metalinguistic constructs, reflection, reification, unquote

120 Some prolog macros for rule-based programming: why? how?

Tim Menzies, Lindsay Mason

October 2002 Proceedings of the 2002 ACM SIGPLAN workshop on Rule-based




Full text available:  pdf(530.35 KB)

Additional Information: full citation, abstract, refer

The history, benefits, and drawbacks to pure rule-based programming is disc
rule-based programming is described. The extensions are very quick to code
range of knowledge engineering applications.

Keywords: history, prolog, rule-based programming

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Full text available: pdf(830.04 KB)

Additional Information: full citation, references

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M. Douglas McIlroy

April 1960

Communications of the ACM, Volume 3 Issue 4

Full text available: pdf(831.69 KB)

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Alexander Sakharov

November 1992

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Full text available: pdf(709.71 KB)

Additional Information: full citation, abstra

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M. G. Notley

September 1971 ACM SIGPLAN Notices , Proceedings of the international symposium
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Claus Brabrand, Michael I. Schwartzbach

January 2002 ACM SIGPLAN Notices , Proceedings of the 2002 ACM SIGPLAN work
semantics-based program manipulation, Volume 37 Issue 3

Full text available:  pdf(217.81 KB)

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Keywords: ambiguity, bootstrapping, compiler, extensible, programming langu

7 Maya: multiple-dispatch syntax extension in Java

Jason Baker, Wilson C. Hsieh

May 2002 ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2002 Confere
implementation, Volume 37 Issue 5

Full text available:  pdf(152.75 KB)

Additional Information: full citation, abstract, reference

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syntax. Maya generalizes macro systems by treating grammar productions as
productions as multimethods on the corresponding generic functions. Program
grammar productions) and new multimethods (i.e., semantic actions), through
language and change the semantics of ...

Keywords: Java, generative programming, macros, metaprogramming

8 Stack Machines and Classes of Nonnested Macro Languages

Joost Engelfriet, Erik Meineche Schmidt, Jan van Leeuwen

January 1980 Journal of the ACM (JACM), Volume 27 Issue 1

Full text available:  pdf(1.46 MB) Additional Information: full citation, references, citings, index terms

9 A language independent macro processor

William M. Waite

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February 1995 ACM SIGPLAN Notices, Volume 30 Issue 2

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12 Technical contributions: STRCMACS: an extensive set of macros to aid in assembly language

C. Wrangle Barth

August 1976 ACM SIGPLAN Notices, Volume 11 Issue 8

Full text available:  pdf(219.18 KB) Additional Information:

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Keywords: language tower, macros, modules

14 Macros as multi-stage computations: type-safe, generative, binding macros

Steven E. Ganz, Amr Sabry, Walid Taha

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15 A history of the SNOBOL programming languages

Ralph E. Griswold

January 1978 ACM SIGPLAN Notices , The first ACM SIGPLAN conference on History of programming, Issue 8

Full text available:  pdf(3.56 MB)

Additional Information: full citation, abstract, reference

Development of the SNOBOL language began in 1962. It was followed by SNOBOL2 and SNOBOL3 (which were closely related), the others differ substantially. They are considered separate languages than versions of one language. In this paper history of the language, SNOBOL, although important aspects of the subsequent languages ...

16 Extensible languages: A potential user's point of view

J. J. Duby

September 1971 ACM SIGPLAN Notices , Proceedings of the international symposium on programming, 12

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The purpose of this paper is to describe a computer user's concern about what they will do it. It may in some respects sound a little demagogic, by considering requirements. However, as Lenin said, "facts are stubborn", and performance characteristics of usual programming languages, they will want to use extensible languages, and in fact ...

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Stephen R. Greenwood

December 1979 ACM SIGPLAN Notices, Volume 14 Issue 12

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